

### **ABSTRACT**

The use of a eosinophil secondary granules basic protein and any functional fragments thereof, and preferably, the use of Major Basic Protein (MBP) purified from eosinophils, as a natural heparanase inhibitor. Also, methods for the inhibition of the catalytic activity of heparanase using MBP, and to methods and compositions for the treatment of heparanase associated pathologic disorders. These methods and composition are particularly useful for the treatment of angiogenesis, tumor formation, tumor progression or tumor metastasis.